

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 03-160105

(43)Date of publication of application : 10.07.1991

(51)Int.Cl.

F01M 3/00

(21)Application number : 01-296456

(71)Applicant : YAMAHA MOTOR CO LTD

(22)Date of filing : 15.11.1989

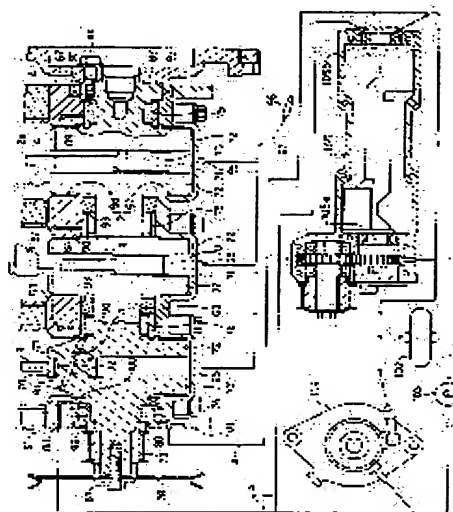
(72)Inventor : ITO HIDEAKI  
MIYAMOTO KANENORI  
MIYAZAWA KAZUO

## (54) LUBRICATING DEVICE OF CRANKCASE PRECOMPRESSION TYPE TWO CYCLE ENGINE

## (57)Abstract:

PURPOSE: To improve the lubricating performance for intermediate bearings of a crankshaft by supplying lubricating oil directly to the intermediate bearings, which support intermediate journals of the crankshaft, from a new lubricating oil tank, which stores newly supplied lubricating oil, through an oil supply passages.

CONSTITUTION: A crankcase 2 is composed of left and right outer walls 61 and 62, a pair of left and right intermediate walls 63 and 64, upper and lower casings 66 and 67 which is splitted vertically into two parts at the axis of a crankshaft 3. The crankshaft 3 is rotatably supported by the crankcase 2 with a ball bearing 74, and needle bearings 75 and 76. A new lubricating oil tank 87 is provided for storing newly supplied lubricating oil A. Oil supplying passages 88 to 90 for supplying lubricating oil A to the bearings 74 to 76 are formed in the left and right outer walls 61 and 62, and the intermediate walls 63 and 64 respectively. New lubricating oil A can be supplied directly to the respective bearings 75 and 76 through the oil supplying passages 89 and 90 connected to the new lubricating oil tank 87.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

BEST AVAILABLE COPY

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office